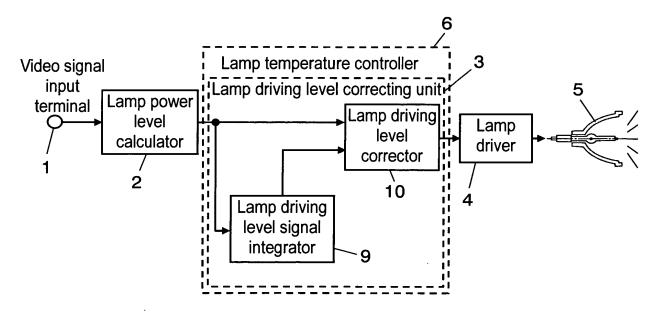
1/12 FIG. 1 16 ¹⁷ 6 15 Video signal Lamp temperature input controller terminal Lamp power Lamp driving Lamp level level correcting driver calculator unit 2 3 14 Liquid crystal panel driver

FIG. 2



2/12 FIG. 3

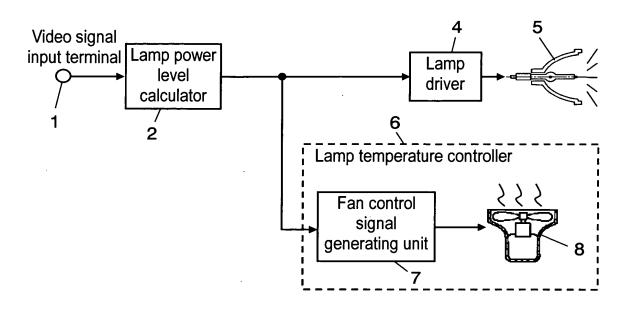


FIG. 4 Video signal 4 input Lamp power terminal Lamp level driver calculator 2 Fan control signal generating unit Fan control signal generator Lamp driving 11 level signal integrator 9 Lamp temperature controller 6

3/12 **FIG**. 5

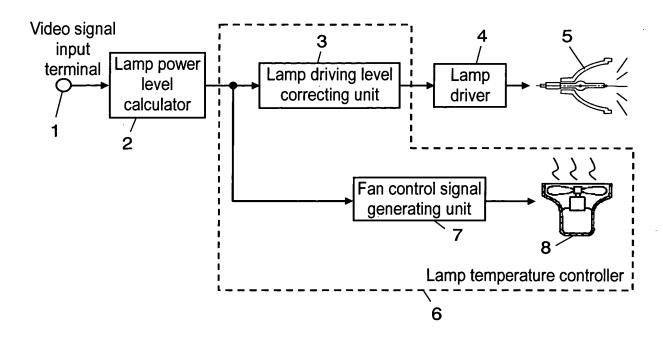
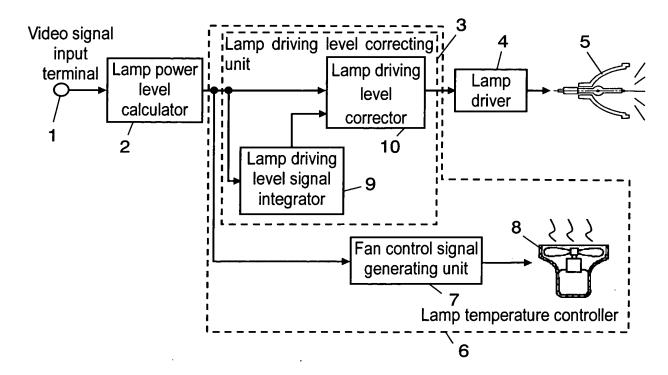
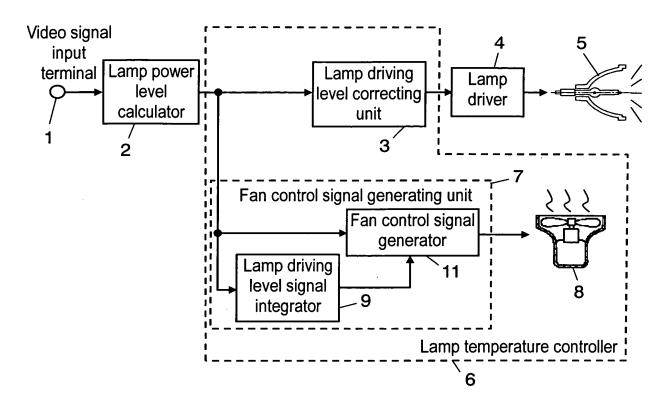
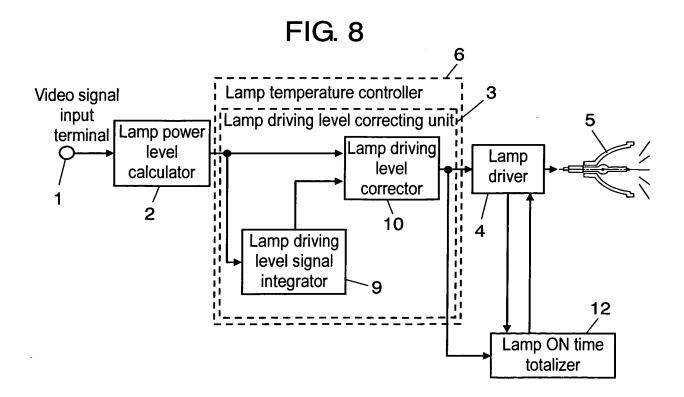


FIG. 6

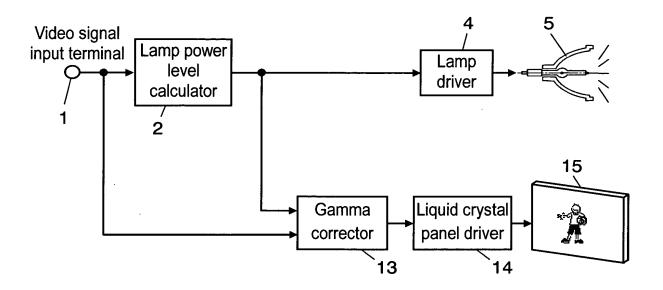


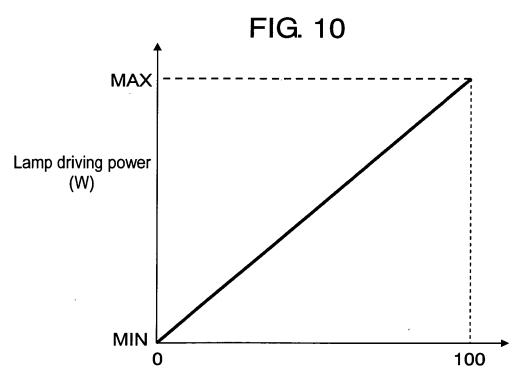
4/12 FIG. 7



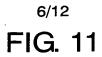


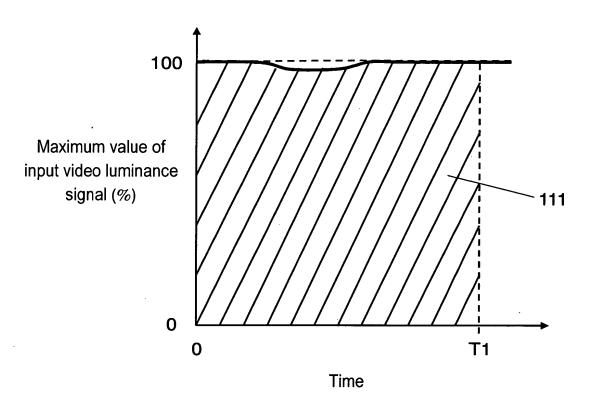
5/12 **FIG.** 9

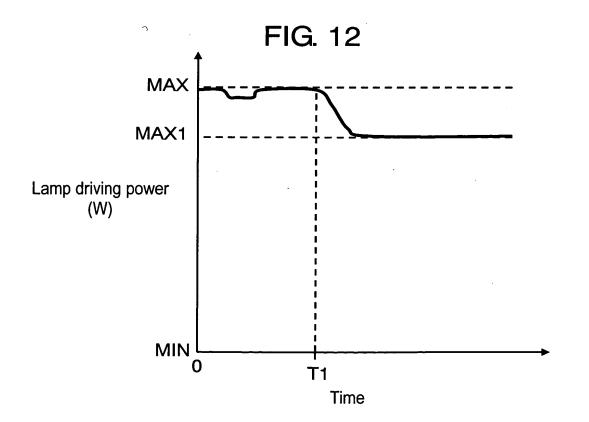


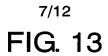


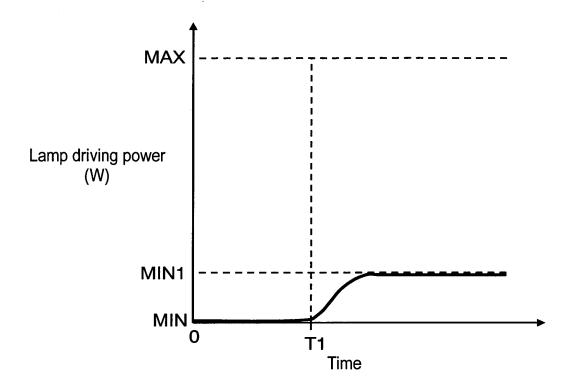
Maximum value of input video luminance signal (%)

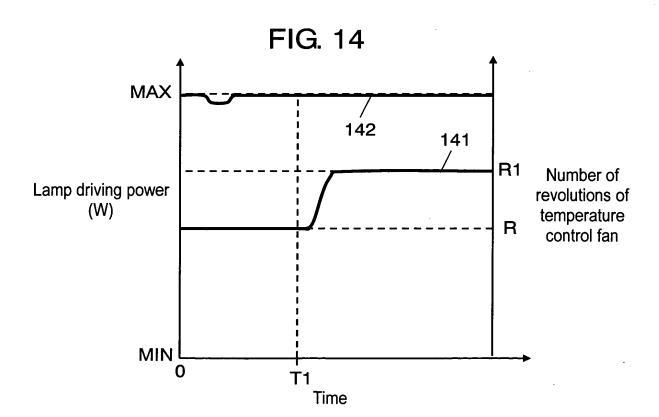




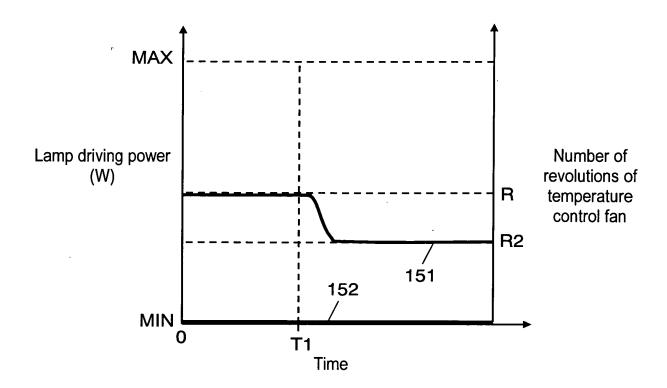


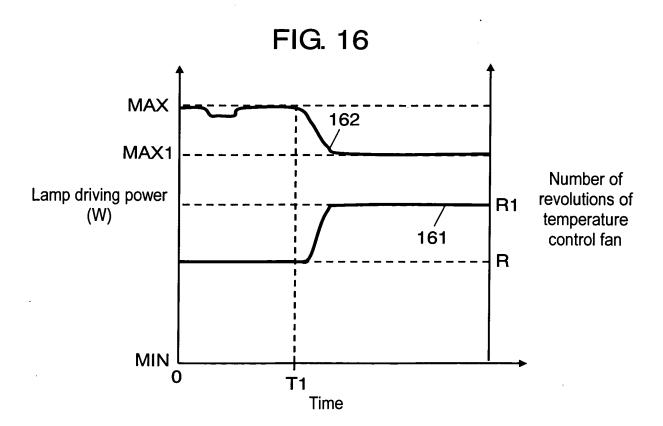




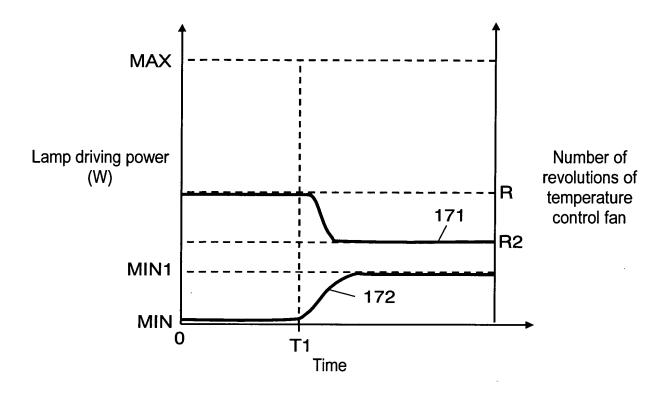


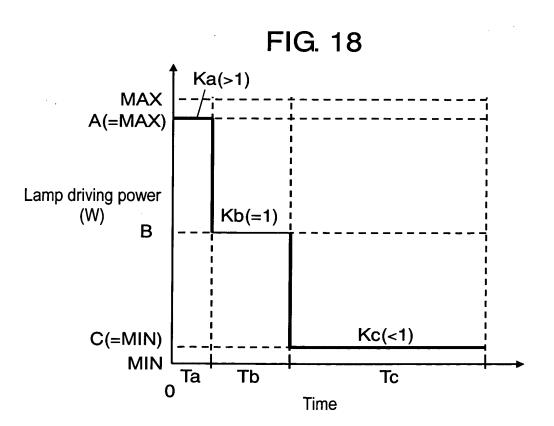
8/12 FIG. 15



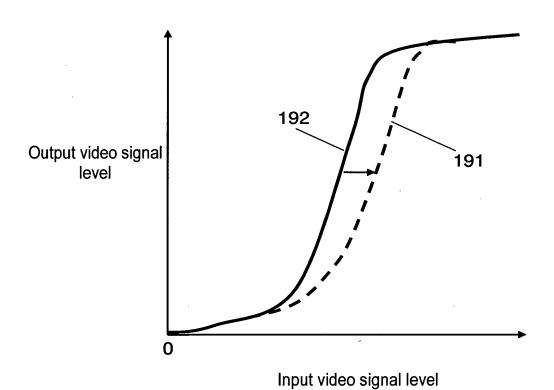


9/12 **FIG. 17**

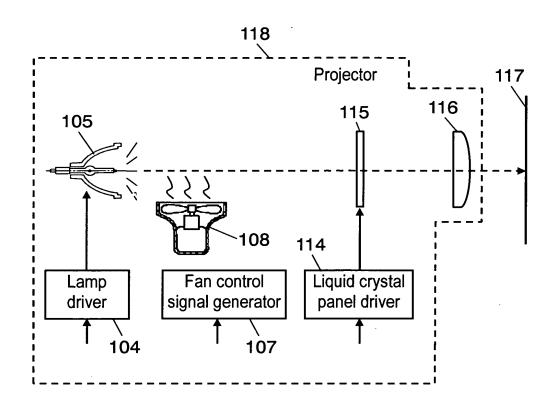




10/12 FIG. 19



11/12 FIG. 20



12/12

Reference marks in the drawings

- 1 Video signal input terminal
- 2 Lamp power level calculator
- 3 Lamp driving level correcting unit
- 4 Lamp driver
- 5 Lamp
- 6 Lamp temperature controller
- 7 Fan control signal generating unit
- 8 Lamp temperature control fan
- 9 Lamp driving level signal integrator
- 10 Lamp driving level corrector
- 11 Fan control signal generator
- 12 Lamp ON time totalizer
- 13 Gamma corrector
- 14 Liquid crystal panel driver
- 15 Liquid crystal panel
- 16 Projection lens
- 17 Screen